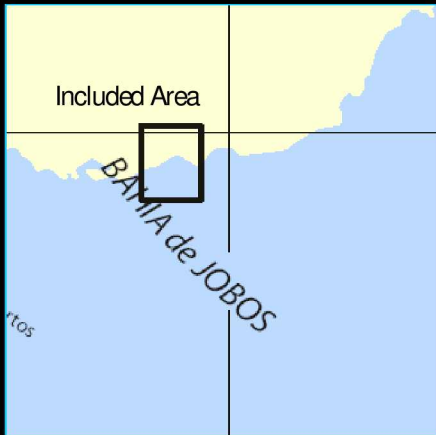


BookletChartTM

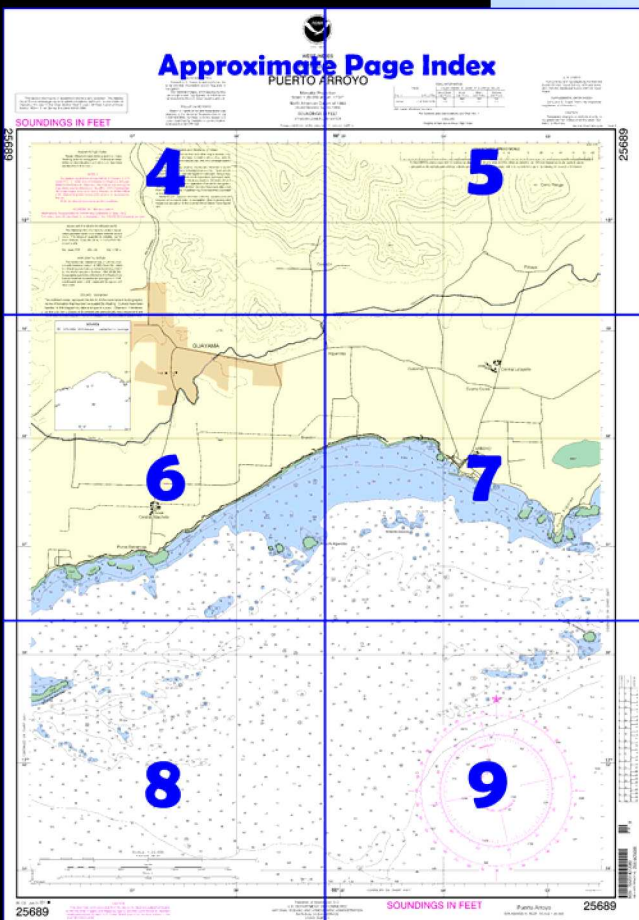
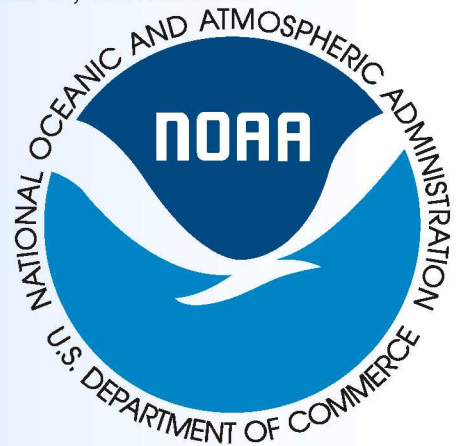
Puerto Arroyo

(NOAA Chart 25689)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

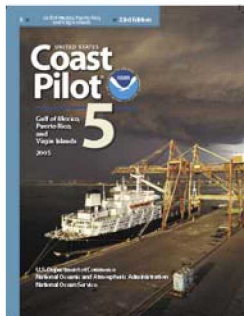
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 5, Chapter 13 excerpts]

(470) **Puerto Arroyo**, 11 miles W of Punta Tuna Light, is an open bay exposed to S winds.

(471) **Punta Punta Figuras** is a projecting point on the E side of Puerto Arroyo. **Cerro Range**, 3 miles N of Punta Figuras, is a distinct sharp conical hill. The stacks of several sugar centrals are also prominent.

(472) The principal entrance channel is from SW. Several shoals with depths of 24 to 30 feet are in this approach, and the bottom is

irregular. There is a small- boat passage from E between Punta Figuras and Arrecife Guayama; the passage should be used only with local knowledge. Depths of 24 to 30 feet can be taken to the anchorage area, thence about 5 feet to the private pier at **Arroyo**. The E passage has depths of 13 to 30 feet to the anchorage.

(473) The best anchorage is in 23 to 30 feet a mile WSW of Punta Figuras. The prevailing SE wind is always felt in the anchorage, although the force is somewhat broken by the outlying reef. Some small fishing vessels anchor near Arroyo according to draft. Bahia de Jobos, 10 miles W, is the nearest hurricane anchorage.

(474) **Arrecife Guayama**, 1 to 1.5 miles off Punta Figuras, is nearly 3 miles long and is dangerous to approach. Its E part is awash, and the sea usually breaks on it; the middle part has little water on it with patches awash on which the sea breaks. The SW end of the reef is marked by a lighted buoy. **Arrecife Corona**, 1.4 miles W of Punta Figuras, has a least depth of 5½ feet.

(475) **Arrecife Algarrobo**, 2.3 miles W of Punta Figuras, has 1 foot or less over it. Several shoals with depths of 6 to 18 feet extend up to 2 miles offshore S of **Punta Barrancas**, a point on the W side of Puerto Arroyo 3.8 miles W of Punta Figuras.

(476) Berths, gasoline by truck, water, some marine supplies, and engine repairs are available at Arroyo.

(477) Local harbor regulations for Puerto Arroyo are enforced by a Commonwealth Captain of the Port.

Table of Selected Chart Notes

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

HEIGHTS

Heights in feet above Mean High Water.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

For Symbols and Abbreviations see Chart No. 1

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

See National Imagery and Mapping Agency List of Lights and Fog Signals for information not included in the U.S. Coast Guard Light List.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the Puerto Rico Datum must be corrected an average of 7.119" southward and 1.406" eastward to agree with this chart.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Geological Survey and U.S. Coast Guard.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 5 for important supplemental information.

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

San Juan, P.R.	WXJ-69	162.40 MHz
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HURRICANES AND TROPICAL STORMS

Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations.

Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved.

Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard unit.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 5. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 7th Coast Guard District in Miami, Florida, or at the Office of the District Engineer, Corps of Engineers in Jacksonville, Florida.

Refer to charted regulation section numbers.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

COLREGS, 80.738a (see note A)

International Regulations for Preventing Collisions at Sea, 1972. The entire area of this chart falls seaward of the COLREGS Demarcation Line.



WEST INDIES
PUERTO RICO

PUERTO RICO

Mercator Projection
Scale 1:20,000 at Lat. 17°57'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

Formerly C&GS 925, 1st Ed., June 1929 C-1929-314

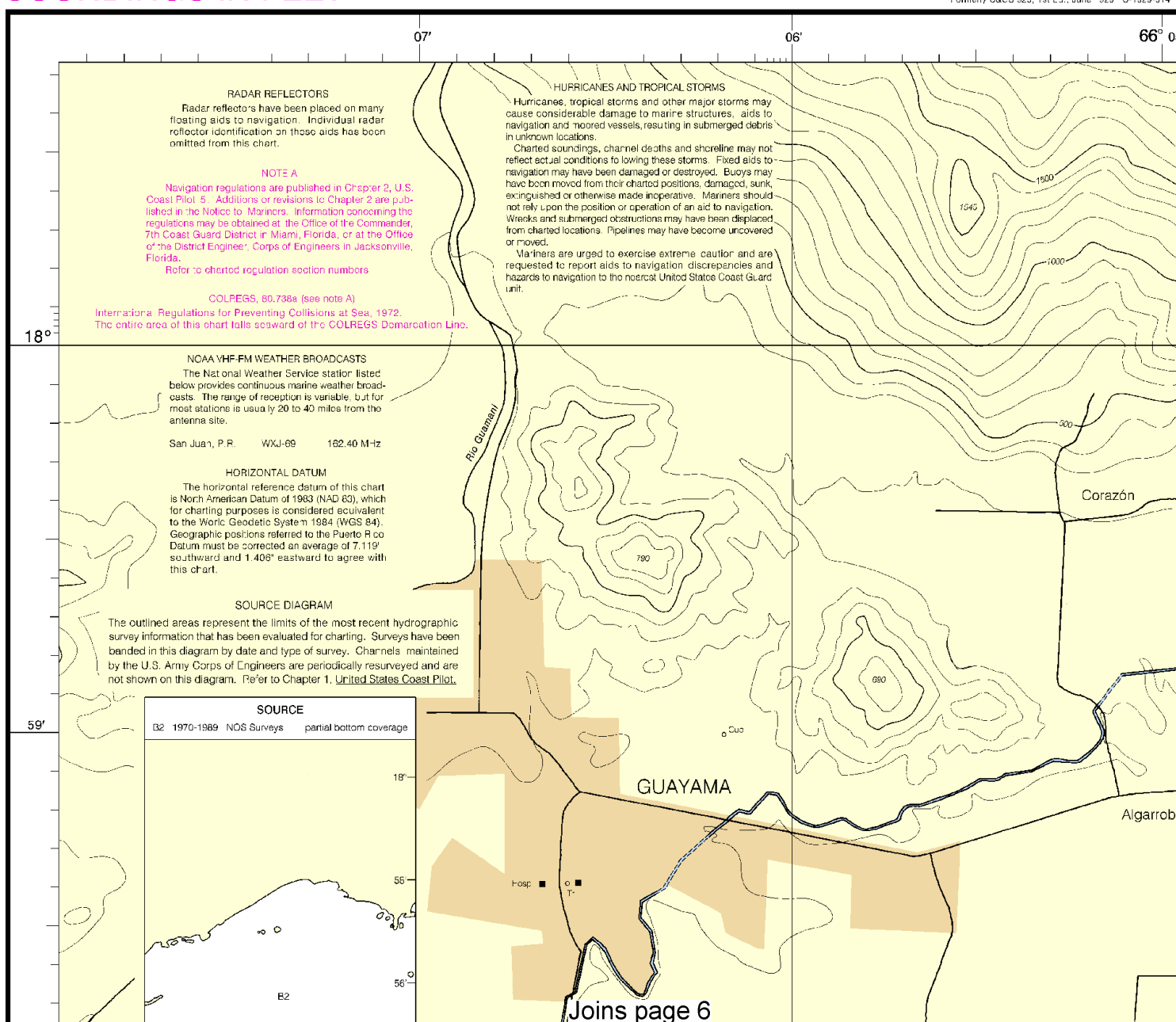
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3292.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
See National Imagery and Mapping Agency List of Lights and Fog Signals for information not included in the U.S. Coast Guard Light List.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

SOUNDINGS IN FEET

25689



4



Printed at reduced scale.

SCALE 1:20,000
Nautical Miles

See Note on page 5.



ARROYO

7'
983

4 KAPP 411

TIDAL INFORMATION				
Place		Height referred to datum of soundings (MLLW)		
Name	(LAT/LONG)	Mean Water High Water	Mean High Water	Mean Low Water
Arroyo	(17°56'N/86°04'W)	feet 0.8	feet ----	feet ----
				Extreme Low Water
				feet -1.0

(291) Latest information available.
For Symbols and Abbreviations see Chart No. 1

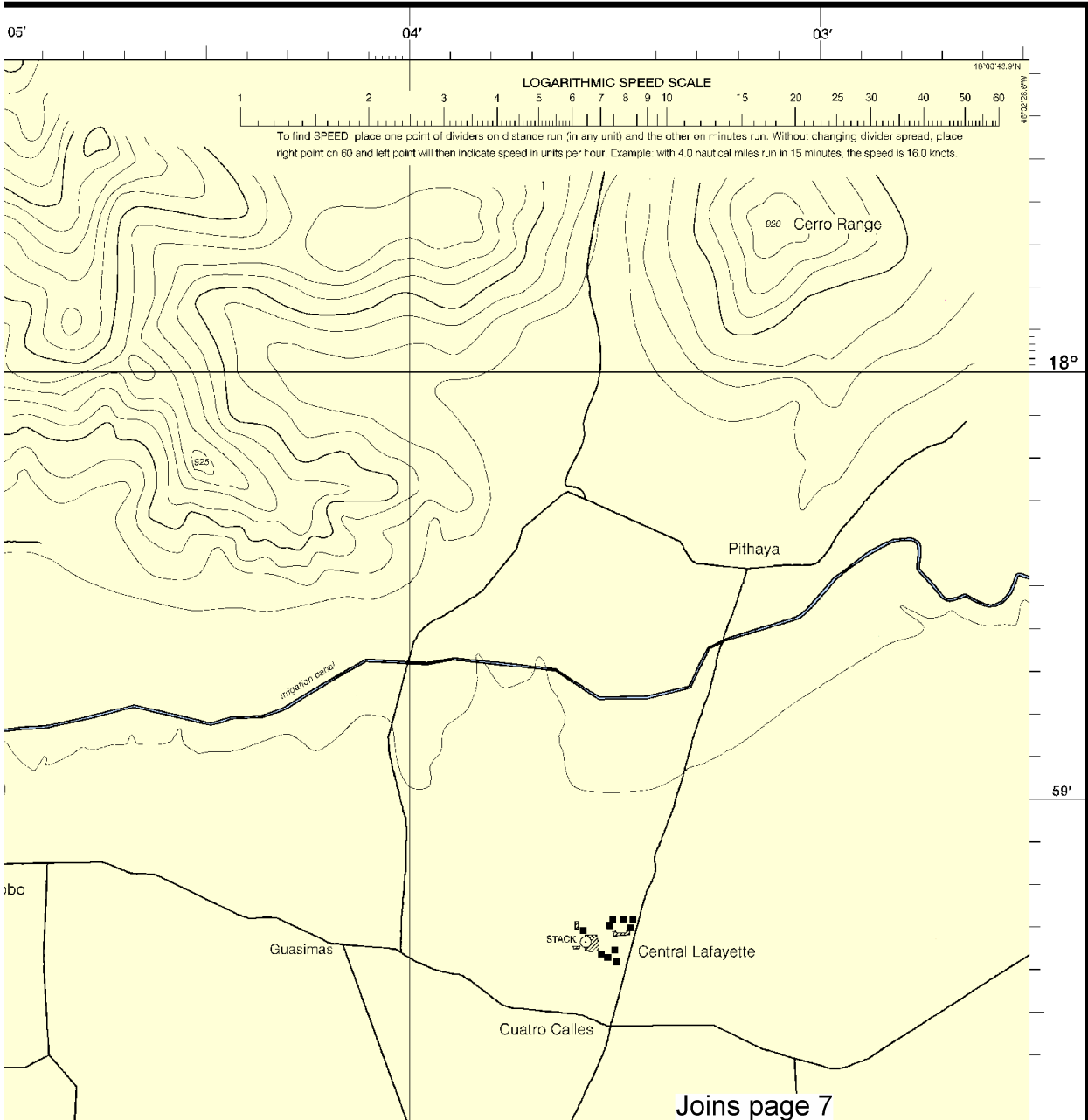
HEIGHTS
Heights in feet above Mean High Water.

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Geological Survey and U.S. Coast Guard.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 5 for important supplemental information.

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

Nautical Chart Catalog No. 1, Panel P



This BookletChart was reduced to 70% of the original chart scale.
The new scale is 1:28571. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.

for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the Puerto Rico Datum must be corrected an average of 7.119' southward and 1.406' eastward to agree with this chart.

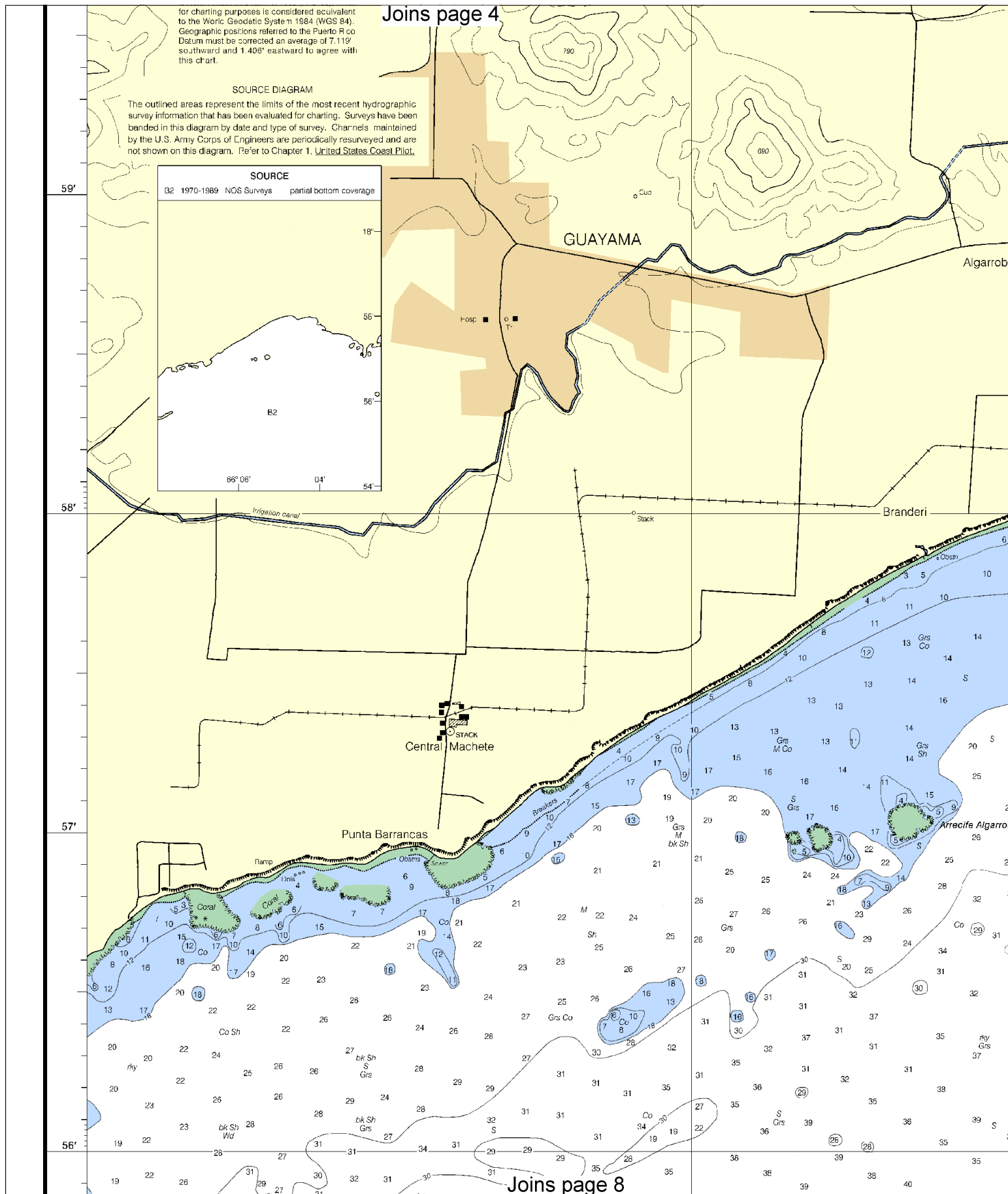
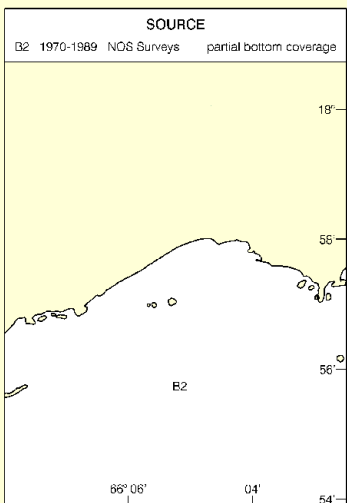
Joins page 4

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, *United States Coast Pilot*.

SOURCE

B2 1970-1989 NOS Surveys partial bottom coverage



Joins page 8

6



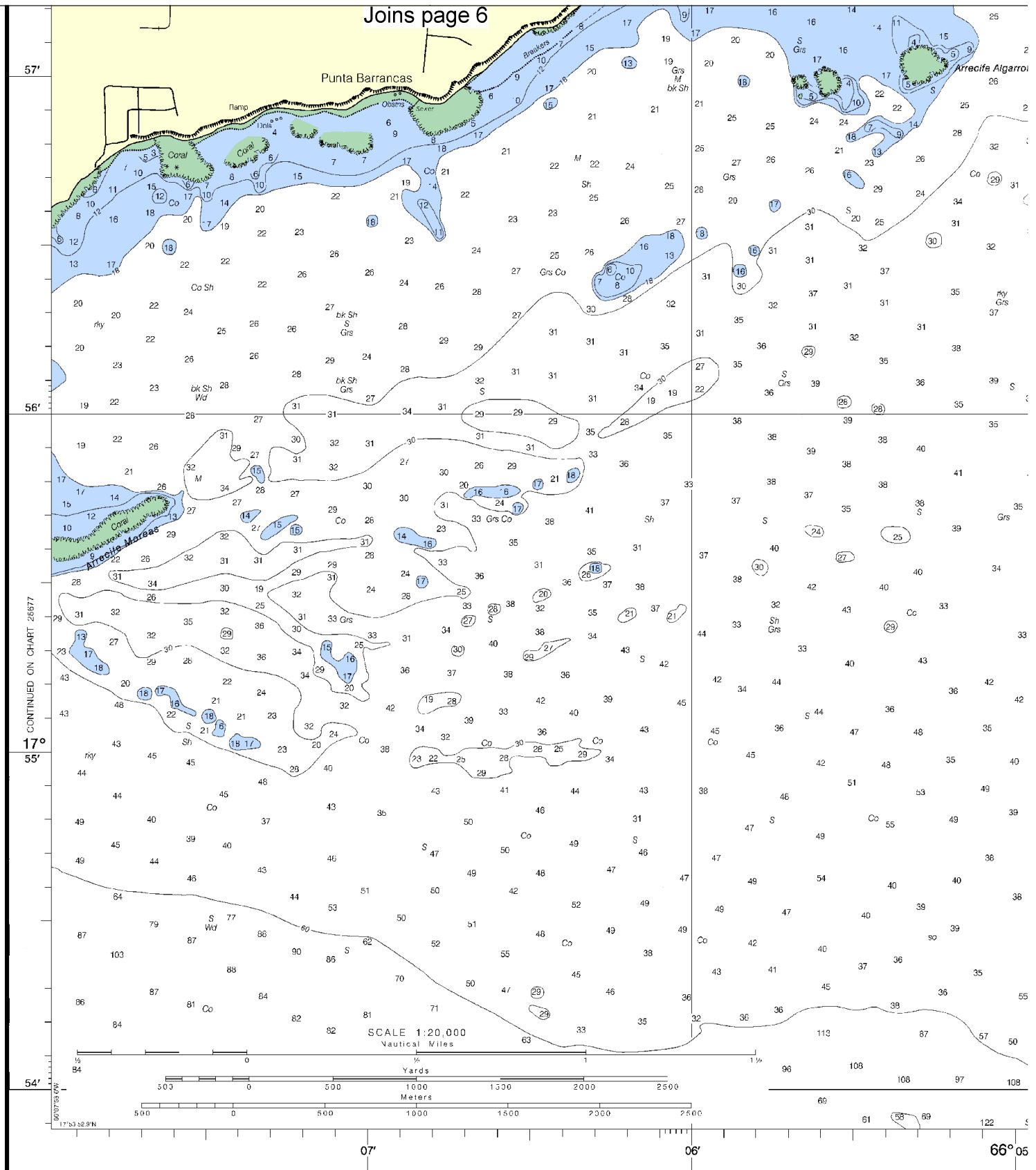
Printed at reduced scale.

SCALE 1:20,000
Nautical Miles

See Note on page 5.



Joins page 6



9th Ed., July 21/01

25689

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

8

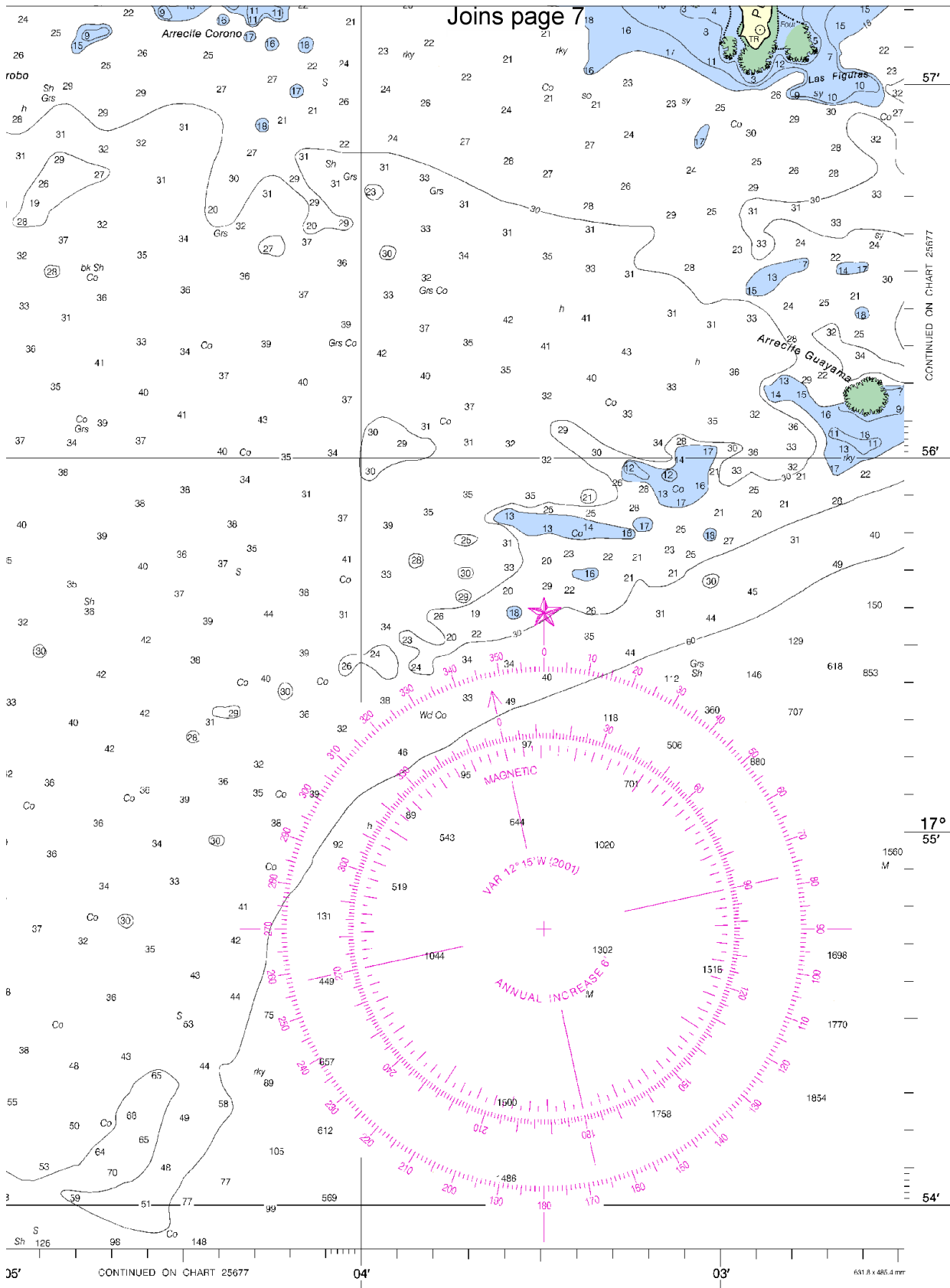


Printed at reduced scale.

SCALE 1:20,000
Nautical Miles

See Note on page 5.





CONTINUED ON CHART 25677

FATHOMS	FEET	METERS
1	6	1.1
2	12	2.2
3	18	3.3
4	24	4.4
5	30	5.5
6	36	6.6
7	42	7.7
8	48	8.8
9	54	9.9
10	60	11.0
11	66	12.1
12	72	13.2
13	78	14.3
14	84	15.4
15	90	16.5
16	96	17.6
17	102	18.7
18	108	19.8
19	114	20.9
20	120	22.0
21	126	23.1
22	132	24.2
23	138	25.3
24	144	26.4
25	150	27.5
26	156	28.6
27	162	29.7
28	168	30.8
29	174	31.9
30	180	33.0
31	186	34.1
32	192	35.2
33	198	36.3
34	204	37.4
35	210	38.5
36	216	39.6
37	222	40.7
38	228	41.8
39	234	42.9
40	240	44.0
41	246	45.1
42	252	46.2
43	258	47.3
44	264	48.4
45	270	49.5
46	276	50.6
47	282	51.7
48	288	52.8
49	294	53.9
50	300	55.0
51	306	56.1
52	312	57.2
53	318	58.3
54	324	59.4
55	330	60.5
56	336	61.6
57	342	62.7
58	348	63.8
59	354	64.9
60	360	66.0
61	366	67.1
62	372	68.2
63	378	69.3
64	384	70.4
65	390	71.5
66	396	72.6
67	402	73.7
68	408	74.8
69	414	75.9
70	420	77.0
71	426	78.1
72	432	79.2
73	438	80.3
74	444	81.4
75	450	82.5
76	456	83.6
77	462	84.7
78	468	85.8
79	474	86.9
80	480	88.0
81	486	89.1
82	492	90.2
83	498	91.3
84	504	92.4
85	510	93.5
86	516	94.6
87	522	95.7
88	528	96.8
89	534	97.9
90	540	99.0
91	546	100.1
92	552	101.2
93	558	102.3
94	564	103.4
95	570	104.5
96	576	105.6
97	582	106.7
98	588	107.8
99	594	108.9
100	600	110.0

ED NO. 9

NSN 7642014012080
NIMA REFERENCE NO. 25XHA25689

RCE
MINISTRATION

SOUNDINGS IN FEET

Puerto Arroyo
SOUNDINGS IN FEET - SCALE 1:20,000

25689

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Puerto Rico – (787) 289-2041

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENC[®]) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNC[™]) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.